

ABSTRACT OF THE DISCLOSURE

The information recording apparatus generates the signal light and the reference light from one laser light, and irradiates
5 the signal light and the reference light on the recording medium to record the information by utilizing the interference fringes. Namely, the information recording apparatus executes a so-called hologram recording. Though the signal light is generated by spatial-modulating the laser light by the recording information,
10 the one-dimensional spatial modulation is performed in the present invention. By performing the one-dimensional spatial modulation, recording the information is possible even if the recording medium is moving in a direction perpendicular or nearly perpendicular to the direction of the spatial modulation.
15 Thereby, even if the irradiation position of the signal light and the reference light is moving relatively to the recording medium, e.g., while a disc-type recording medium is rotating, the hologram recording is possible. Thus, the random access performance to the recorded information can be improved and a
20 configuration of the apparatus can be simplified.